The invention relates to a package for a flowable good after the preamble of Claim 1.

Liquids or other flowable good ones, must become on the one hand dense packaged and be on the other hand simple transportable. Usually are ready liquid tank for the storage of liquids or other flowable goods to place. It is however already known to place in place of tanks Einmalverpackungen for flowable good ones ready which essentially exhibit from an outer container and a one in this inserted liquid tight Inliner with inlet and discharge opening bung. These containers become filled over the inlet bung of the Inliners. The liquid and/or. the flowable good can become over the discharge opening bung, which must lie in an outlet opening near the surface disposed in the outer container on a side, again dispensed. With these known packages it is problematic to put the before usually folded Inliner so properly matching into the outer container that the discharge opening bung of the Inliners comes to lie in the outlet opening.

Object of the present invention is it therefore, one would genericin accordance with-eat package in such a manner more other to form that the Inliner is problem-free into the outer container insertable.

This object becomes according to invention on the basis of an genericin accordance with-eaten package by the combination with the features of the characterizing portion of the claim 1 dissolved. Therefore the Inliner with a two-piece bottom member, which can be inserted into the outer container, is solid connected, which consists of as Zentrierscheibe formed a lower part and with this connected and as folding structure formed upper part, whereby the upper part exhibits a circular opening, in which the discharge opening bung of the Inliners sits. Thus a comparatively rigid bottom member formed, that is according to invention easy into the outer container more insertable is and thus an insertion of the Inliners into the associated outer container substantial facilitated in the bottom portion of the flexible Inliners.

Prefered embodiments of the invention result from itself the Unteransprüchen subsequent to the principal claim.

Therefore the outer container can preferably consist of corrugated board. Also the two-piece bottom member can be from corrugated board made.

The Inliner consists three-fold LLDPE film in accordance with an advantageous embodiment of the invention of polyethylene, preferably an in, a two, or. The Inliner knows in addition, from every other usually inserted plastic or plastic group, how polypropylenes or another thermoplastic resin or a multilayer film exist, in which for example a barrier layer incorporated is. This barrier layer can consist for example of aluminium EVOH, SiOX or other water vapour and/or oxygen-dense films.

The two-piece bottom member can be in such a manner constructed that the upper part formed as folding structure exhibits a lateral set tab, in which the circular opening to the receptacle of the discharge opening bung is excluded. This bends with the insertion of the Inliners in the outer container and fillings of the same around a crease line, so that she can straighten up along the side wall of the outer container exhibiting the outlet opening in the manner that its circular opening the outlet opening covered. Thereby can in particularly advantageous manner ensured to become that the circular opening of the folding structure, is inserted in which the discharge opening bung of the Inliners becomes positioned with the insertion and filling of the Inliners automatic proper the outlet opening of the outer container.

The outer container can exhibit a rectangular bottom favourably.

The lower part of the two-piece bottom member can as if centered-hurry the internal dimension of the bottom of the outer container to exhibit. That upper part of the folding structure, which essentially of two halves folded in the unbefüllten state around a central crease line can consist, is favourable along the central crease line with the lower part bonded.

The upper part of the two-piece soil element can be with the Inliner bonded.

The Inliner exhibits favourably side folds and one as pointed soil abgeschweissten bottom. In accordance with another advantageous embodiment the Inliner can be abgeschweisst in the head portion than pointed soil. If necessary an extended inlet hose can be provided in the head portion, which with various rack machines of advantage is.

Other details and advantages result from an embodiment represented in the drawing. Show:

Fig. 1 a perspective view of a Inliners to the use in an execution variant of the present invention,

Fig. 2 a perspective view of a Inliners of another embodiment,

Fig. 3 a perspective view of a soil element separated of the Inliner,

Fig. 4 a perspective view of a Inliners connected with the bottom member,

Fig. 5 a perspective view of an outer container without inserted Inliner,

Fig. 6 a perspective view of an entire packing after an embodiment of the present invention before the filling of the Inliners and

Fig. 7 an illustration in accordance with Fig. 6, filled with which the Inliner becomes straight with liquid.

In Fig. 6 is the entire package 10 shown. This consists 14 provided Inliner 16 of an outer container 12 and with a two-piece bottom member.

Into the Fig. 1 and 2 is two various embodiments of Inlinern 16 shown, those in both cases from a composite sheet with a barrier layer from aluminium, EVOH, SiOX or corresponding materials with locking action against water vapor, oxygen or other gases exhibits.

In the embodiment in accordance with Fig. 1 is provided the Inliner 16 with side folds 20. Both as the bottom side 22 as well as the side of the head 24 are abgeschweisst pointed soil. In the bottom portion discharge opening bung 26 is and in the head portion is an inlet bung 28 in-sealed.

In Fig. 2 is an easy modified form of the Inliners 16 shown, whereby the Inliner in the head portion exhibits an extended inlet hose 30 here, at whose upper end the inlet bung 28 in-sealed is. This embodiment is with various rack machines of advantage.

As in the overall display of the Inliners after Fig. 4 shown, is the Inliner 16 on the bottom side with a two-piece bottom member 32 bonded. The bottom member 32 is single in Fig. 3 shown and can do on the basis the Fig. 3 explained becomes. The two-piece bottom member 32 consists of corrugated board. It exhibits a Zentrierscheibe 34 as lower part and a folding structure 36 as upper part. The upper part 36 exhibits two 38 halves 40 and 42 folded around a central crease line. At the half 42 a tab is 44 attached, which is 36 connected over a crease line 46 with the latter half of the folding structure. In the tab 44 a central circular opening 48 is excluded. The folding structure 36 is 34 bonded along the crease line 38 with a thermoplastic adhesive line 50 with the lower part. The halves 40 and 42 of the folding structure 36 take the same surface as the Zentrierscheibe 34. In here the present embodiment they are rectangular. Thus the here folded represented halves can become 40 and 42 on the Zentrierscheibe 34 placed.

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From the Fig. it results 4 that the discharge opening bung 26 of the Inliners projects into the outlet opening 48 of the two-piece soil element 32. The two-piece bottom member 32 is 16 wide bonded with the bottom portion of the Inliners.

In Fig. 5 is the outer container 12 of the package shown. This outer container 12 has the form of a parallelepiped. It consists of corrugated board. Vicinity the bottom 52 is in a side wall an outlet opening 54 disposed. In Fig. 6 is the Inliner 16 with the two-piece bottom member 14 into the outer container 12 inserted, whereby the Zentrierscheibe, which corresponds to the inner surface of the bottom 52 of the outer container, leads 16 in the outer container 12 to a safe situation-precise positioning of the Inliners.

In Fig. 7 is now indicated, as liquid 56 into the Inliner 16 flows, so that the Inliner sets itself on the outer contour of the outer container. By the Gewichtskraft of the liquid 56 the folded halves 40 and 42 of the folding structure become 36 downward 34 pressed on the Zentrierscheibe, so that them lie on this. The tab 44 connected over the crease line 46, which can be perforated if necessary, with the half 42 is bent and sets themselves on the outlet opening 54 exhibiting side wall of the outer container 12 in such a manner that the discharge opening bung becomes 26 in the outlet opening 54 outer container of the pressed.

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